

sewed and then cast off the thread in order to form a stitch.

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sewing-machine needle having a point, a section first increasing and then decreasing and contiguous to said point, a notch cut in one side of said needle, above said section, both walls of the said notch running upward and toward the shank and obliquely to the shaft of said needle, substantially as and for the purposes set forth.

2. A sewing-machine needle having a point, a section first increasing and then decreasing on both the front and rear side of the body of the needle and contiguous to said point, a notch cut in one side of said needle obliquely to the shaft and upwardly toward the shank of said needle and a thread-groove in the rear and front side of said needle, substantially as and for the purposes set forth.

3. A sewing-machine needle having a point, a section first increasing and then decreasing on both the front and rear side of the body of said needle and contiguous to said point,

a notch cut upwardly toward the shank and in one side of said needle obliquely to the shaft of said needle, the body of the needle on the opposite side of the notch bulging out contiguous to the point, a thread-groove in the rear and front side and a cavity or depression on the rear side, substantially as and for the purposes set forth.

4. A sewing-machine needle having a thread-engaging notch lying in a plane oblique to the longitudinal axis of the needle and having its mouth opening downwardly, said needle having a point-section below the notch, one wall of which section beginning at the bottom of the notch passes in a curvilinear path to the needle-point, and a thread-groove passing out of the bottom of the notch and upwardly along the body of the needle, substantially as and for the purposes set forth.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HELEN A. BLANCHARD.

Witnesses:

HERMANN BORMANN,
LOUISE P. BLANCHARD.